

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

RICHARD L. CHINN BBLON SPIVAK MCCLELLAND MAIER NEUSTADT CRYSTAL SQUARE FIVE, FOURTH FLOOR

WRITTEN OPINION

1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VA 22202		(PCT Rule 66)				
-		Date of Mailing (day/month/year)	23 JUL 2001			
Applicant's or agent's file reference		REPLY DUE within TWO months				
196351W077		from the above date of mailing				
International application No. International filing da		te (day/month/year)	Priority date (day/month/year)			
PCT/US00/21970 14 SEPTEMBE		2000 14 SEPTEMBER 1999				
International Patent Classification (IPC) Please See Supplemental Sheet.	or both national classif	fication and IPC				
Applicant CANFIELD WILLIAM M.			·			
This written opinion is the first	(first, etc.) (drawn by this Interna	tional Preliminary Examining Authority.			
2. This opinion contains indications r	elating to the following	items:				
I X Basis of the opinion						
II Priority						
III Non-establishment	of opinion with regard t	to novelty, inventive	step or industrial applicability			
IV Lack of unity of inv						
V X Reasoned statement citations and explan	under Rule 66.2(a)(ii) w nations supporting such	ith regard to novelty statement	, inventive step or industrial applicability;			
VI Certain documents	cited					
VII Certain defects in t	he international applicat	tion				
VIII X Certain observation	ns on the international a	pplication				
3. The applicant is hereby invited to	reply to this opinion.		li i i i i i i i i i i i i i i i i i i			
Authority-to-gran	t an extension., see Muic	e -66,2(u).	e expiration of that time limit, request this			
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.						
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.						
If no reply is filed, the internal	ional preliminary exami	ination report will be	established on the basis of this opinion.			
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 14 JANUARY 2002						
		1 1 00				
Name and mailing address of the IPI Commissioner of Patents and Tra	A/US demarks	Authorized offic	Alla Il lian da			
Box PCT Washington, D.C. 20231		TEKCHANI	SAIDHA WHALLON JO			

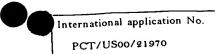
Facsimile No. (703) 305-5250

Telephone No. (703) 308-0196



With regard to the elements of the international application.* X	iled 19
the description: pages 1-69 pages NONE pages NONE pages NONE pages NONE pages 70-86 pages NONE page	iled 19
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the claims: pages 70-86 , as originally f pages NONE , filed with the letter of , filed with the dem pages NONE , as amended (together with any statement) under Article pages NONE , filed with the letter of , filed with the dem pages NONE , filed with the letter of , as originally f pages NONE , filed with the letter of , filed with the dem pages NONE , filed with the letter of , filed with the dem pages NONE , filed with the letter of , as originally f pages NONE , filed with the letter of , as originally f pages NONE , filed with the letter of , as originally f pages NONE , filed with the letter of , filed with the dem pages NONE , filed with the letter of , filed with the dem pages NONE , filed with the letter of , the dem with regard to the language, all the elements marked above were available or furnished to this Authority in the language in the international application was filed, unless otherwise indicated under this item. These elements were available or furnished for the purposes of international search (under Rule 23.1(b)). the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opin drawn on the basis of the sequence listing: contained in the international application in printed form. X filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.	iled 19
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furnished subsequently to this Authority in computer readable form.	
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.	
The statement that the information recorded in computer readable form is identical to the writen sequence listin been furnished.	g has
The amendments have resulted in the cancellation of:	
X the description, pages NONE	
X the claims, Nos. NONE	
X the drawings, sheets/fig NONE	- ۵ اد -
5. This opinion has been drawn as if (some of) the amendments had not been made, since they have been consider beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	ed to
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are rejing this opinion as "originally filed".	erre





	Reasoned statement under Rule 66.2(a) citations and explanations supporting s	(ii) with regardence stateme	ard to novelty, inventive step or industrial applica nt	
1.	statement			N/II
	Novelty (N)	Claims	2-105	_ YE NO
	Novelty (14)	Claims	1	NO
				YE
	Inventive Step (IS)	Claims	2-105	NC
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	- a	Claims	1-105	11 NO
1	Industrial Applicability (IA)	Claims	NONE	NC
1		se and anticipa	and does not teach or fairly sug	6]. Bao e
	phospho-transferase, antibodies to the enzyr structure of bovine N-acetylglucosamine-1-p claimed is outside the range of teachings of however, the specific phosphotransferase see	T Article 33(acid sequences nes, and the m phosphodiester Kornfeld et al quence claimed	2)-(4), because the prior art does not teach or fairly sug, vectors, host cells and the methods of making the dies nethods of using the enzymes. Kornfeld et al. teach a mut N-acetyleglucosamine, however, the specific diesterase l. Similarly, Bao et al. teach a bovine GlcNAc-phosphoted is outside the range of teachings of Bao et al. ticle 35(4), because the subject matter claimed can be mattered.	gest the terase, ltimeric sequence ansferase
•	phospho-transferase, antibodies to the enzyr structure of bovine N-acetylglucosamine-1-p claimed is outside the range of teachings of however, the specific phosphotransferase sec	T Article 33(acid sequences nes, and the m phosphodiester Kornfeld et al quence claimed	2)-(4), because the prior art does not teach or fairly sug, vectors, host cells and the methods of making the dies nethods of using the enzymes. Kornfeld et al. teach a mu N-acetyleglucosamine, however, the specific diesterase. I. Similarly, Bao et al. teach a bovine GlcNAc-phosphotid is outside the range of teachings of Bao et al.	gest the terase, ltimeric sequence ansferase





VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 7 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s): Claim 7, line 3 recites nucleotide 2949-3952 of SEQ ID NO: 6. The claim is indefinite because SEQ ID NO: 6 as per sequence search is an amino acid sequence and a nucleotide sequence.



Supplemental Box-

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIIII

Sheet 10

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C12N 9/12, 9/14, 1/20, 15/00; C07H 21/04; A61K 38/44, 38/51; C07K 14/00 and US Cl.: 435/194, 195, 252.3, 320.1; 536/23.2; 424/94.5, 94.6; 530/387.1, 388.1